

# SMUG

# BYTES

PRICE  
.75

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\* SMUG BYTES \*  
\* Volume 5, Number 5 \*  
\* MAY 1988 \*  
\*\*\*\*\*

\* Subscriptions= \$10.00/year \*  
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\* P.O. Box 101 Butler, WI 53007 \*  
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\* THIS MONTH: \*  
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- \* - Bill On OL With Boot Prog. \*
- \* - Dick On QL Networking \*
- \* - Rudy's "SQ" NOTES \*
- \* - Presidents Message \*
- \* - And Other Great Things \*

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\* NEXT MEETING DATE: 6/08/88 \*  
\*\*\*\*\*

\* Send all contributions by the \*  
\* first day of the month to: \*

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Meeting date see Spectrum group.  
\*\*\*\*\*

## FOR SALE:

If you have anything for sale, you can advertise it for free in this newsletter (provided you're a SMUG member). Our newsletter reaches an ever-growing number of TS User Groups throughout the country, increasing your chances of a sale.

Dr. Lloyd Dreger has his second "Machine Code" book ready. This book takes up where the last one left off. This book will take you deeper into the intricacies of that monster, machine code programming.

The price will be the same as the other book \$16.95 (SMUG members \$15.00) plus \$1.50 S&H.

The following are the seminars from the 1987 Midwest Computerfest. Prices are \$10 for the first seminar and \$2 for each seminar after that for up to six seminars. Two tapes can hold all the seminars or a total cost of \$40.

"MACHINE CODE FOR THE ZX81"  
"DESK TOP PUBLISHING"  
"THE FORTH LANGUAGE"  
"GRAPHICS ON THE TS2068/SPECTRUM"  
"HARDWARE INTERFACING 1"  
"HARDWARE INTERFACING 2"  
This is Saturday (1) and Sunday (2)  
"PRINTER AND PRINTER INTERFACES"  
"QL AND SUPERIOR SINCLAIR TECH"  
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## "SQ" NOTES

BY R.A.HILSMANN

This column is dedicated to the SDOS DISK SYSTEM, or you may call it the OLIGER DISK SYSTEM. Also to the SPECTRUM emulated Timex computer, and SOFTWARE written for either one of the above. Further it will cover the SINCLAIR QL computer as time and need will mandates such coverage. Does this mean that software you will find here will not work in the Timex mode? Of course not, fact is that all software you will find in this column will most likely work in both systems. The hangup may be that some programs will not work properly in the Timex mode, since the Timex has less memory available. The program for this month is written to run only in the TIMEX MODE, since the SPECTRUM ROM does not support error trapping, necessary in this particular program.

I hope you enjoyed the LIBRARY program I had for you last month, which had of course been written for the SDOS DISK SYSTEM. I neglected to mention this last month and hope that all who have ordered or entered same were aware of this. I have updated the program a few times since to version 1.4, which includes the RENAME DISK feature. This will not only rename all the LIBRARY files, but also the DISK. I had found this necessary, since my disk library was a mess.

As all previous programs you had found here, this new version is available to you if you send \$ 5 to:

IMPEX SOFTWARE  
P.O. BOX 45  
MENOMONEE FALLS, WI. 53051

keep in mind that I will send tapes only, since tapes do not come with different tracks and one or two sides etc. besides you'll have a backup on tape if you should ever loose the disk and are not able to recover it with the following program "RECOVER".

```
1 REM FILL THIS LINE WITH
1 SPACES
2 FOR MACHINE CODE
3
TO HERE>4
```

10 REM

```
*****
* DISK RECOVER PROGRAM *
* FOR SAFE DOS (SDOS) *
* ©1988 IMPEX SOFTWARE *
* FOR PUBLIC DOMAIN *
* BY R.A. HILSMANN *
*****
```

```
20 LET A=0: PAPER A: INK 9: BO
RDER A: CLS : DIM A$(5121): DIM
B$(16): DIM C$(168,20): LET D$="
": LET FL=A: GO SUB 480: PRINT
AT 10,A;"Do you need to create a
new DiskDirectory on the damage
d disk ?"" (Yes/No)": INPU
T "Y/N ";Q$: IF Q$="n" OR Q$="N"
THEN LET FL=1
30 CLS : GO SUB 480: PRINT AT
10,0;"Insert disk into drive of
your choice and enter drive num
ber below. ";
40 IF NOT FL THEN PRINT "Disk
will be processed to receive a
temporary directory"
50 GO SUB 480: INPUT "WHICH DR
IVE ?? (1 TO 4) ";K: LET /D=K-1
60 IF NOT FL THEN GO SUB 480:
INPUT "ENTER NEW DISK NAME >";B$
70 IF NOT FL THEN CLS : GO SUB
480: PRINT AT 10,0;"DISK WILL B
E PROCESSED NOW""PRESS ENTER W
HEN READY": PAUSE 0
80 CLS : GO SUB 480: PRINT AT
10,7; FLASH 1;"one moment please
!";AT 15,9;"PROCESSING NOW": FOR
/1 TO 167: LET C$(A,1 TO 10)="C
YL # "+STR$ A+" ": LET C$(A,11
TO )=CHR$ 3+CHR$ 0+CHR$ 20+"Uh
CLS "+CHR$ 24+CHR$ 0+CHR$ 0+CHR$
1
90 IF A=1 THEN LET C$(A,19)=CH
R$ 1
100 NEXT : LET K=1: GO SUB 150
110 FOR X=2 TO 167 STEP 2: LET
C$(X,18)=CHR$ K: LET C$(X+1,18)=
CHR$ K: LET K=K+1: NEXT X
120 FOR X=3 TO 167 STEP 2: LET
C$(X,19)=CHR$ 255: NEXT X: LET C
$(168,1)=CHR$ 128
130 IF FL THEN GO TO 190
140 GO TO 180
150 RESTORE 160: FOR X=26715 TO
26834: READ A: POKE X,A: NEXT X
: RETURN
160 DATA 205,10,0,237,176,205,1
42,10,223,42,75,92,17,19,20,25,1
7,16,38,1,16,0,24,232,42,75,92,1
7,43,20,25,17,32,38,1,13,13,24,2
17,42,75,92,17,12,0,25,17,0,62,1
0,20,237,176,201,42,75,92,17,12
0,25,1,0,20,62,229,237,161,32,2
52
170 DATA 237,161,32,248,237,161
,200,24,243,42,75,92,17,11,20,25
,1,0,20,62,13,237,169,200,24,251
,42,75,92,17,11,20,1,0,20,25,62,
229,237,169,40,252,62,0,237,169,
192,24,251
```

```

180 RANDOMIZE USR 26739: RANDOM
IZE USR 26724
190 LET DR=0: CLS : GO SUB 480:
PRINT AT 5,0;"DAMAGED DISK WILL
BE CHECKED FOR INTACT DATA N
OW, PLEASE FOLLOW THE PROMPT
S"."PRESS ENTER WHEN READY": PA
USE 0: LET NEXT=1
200 ON ERR GO TO 290: LET FL=1
210 GO SUB 470: LET Z=Z+12: FOR
X=NEXT TO 167: LET CYL=X: PRINT
AT 0,25;"CYL ";X: LET D$="CYL #
"+STR$ X: LOAD /D$CODE Z: IF CO
DE A$(1)=229 AND CODE A$(5120)=2
29 THEN LET FL=0: CLS : PRINT AT
10,0;"CYLINDER ";X;" IS NOT REC
OVERABLE""CHECKING CYLINDER
";X+1;" NOW""PRESS ZERO (0) T
O EXIT""OR ANY OTHER KEY TO CO
NTINUE ": PAUSE 0: IF INKEY$="0"
THEN GO TO 490
220 IF NOT FL THEN NEXT X
230 CLS : LET FL=1: GO SUB 480:
PRINT AT 10,0;"CYLINDER ";X;" I
S LOADED NOW""PRESS KEY TO VIE
W DATA ": PAUSE 0
240 CLS : RANDOMIZE USR 26754:
GO SUB 480: PRINT AT 20,0; INVER
SE 1;"PRESS (P) TO VIEW IN DATA
FORMAT ONE (1) TO VIEW NEXT CYLI
NDER ";#0;"PRESS ZERO (0) TO RE
STORE DATA ": PAUSE 0: IF INKEY$
="1" THEN GO TO 280
250 IF INKEY$="P" OR INKEY$="p"
THEN LET FL=0: CLS : PRINT #0;"
PRESS ZERO (0) TO RESTORE DATA "
: FOR S=1 TO 5120: ON ERR GO TO
300: PRINT A$(S);: IF INKEY$="1"
THEN GO TO 280
260 IF INKEY$="0" THEN GO TO 31
0
270 IF NOT FL THEN NEXT S
280 NEXT X: STOP
290 ON ERR RESET : NEXT X
300 IF NOT FL THEN ON ERR RESET
: NEXT S
310 ON ERR RESET : CLS : GO SUB
480: PRINT AT 5,0;"WHAT KIND OF
DATA IS IT ?""1) BASIC""2)
NUMERIC DATA ""3) STRING DATA
""4) MACHINE CODE ""5) STAT
E OF MACHINE""6) VARIABLES": I
NPUT K: LET LENGTH=0: LET PROG=0
: LET CL=1: LET DR=DR+1
320 IF K=5 THEN GO TO 400
330 CLS : LET A=USR 26770: LET
A=5120-A
340 IF A>0 THEN PRINT "" TOTAL
BYTES SAVED="";A+LENGTH: GO TO 3
60
350 IF A<=0 THEN LET CL=CL+1: L
ET LENGTH=LENGTH+LEN A$-1: LET X
=X+1: GO SUB 470: LET Z=Z+12: LE
T D$="CYL # "+STR$ X: LOAD /D$CO
DE Z: GO TO 330
360 LET S=A
370 IF K=1 THEN LET N=USR 26795
: PRINT ""PROGRAM LENGTH="";N+LE
NGTH+1;" BYTES": LET PROG=N+LENG
TH+1: GO TO 400
380 IF NOT K=1 THEN LET N=USR 2
6812: PRINT "" DATA LENGTH="";N+
LENGTH+1;" BYTES": LET PROG=N+LE
NGTH+1: GO TO 400
390 NEXT N: STOP

```

```

400 LET D$=CHR$ (K-1): IF K=1 T
HEN LET D$=D$+CHR$ (PROG-256+INT
(PROG/256))+CHR$ (INT (PROG/256
))+CHR$ 0+CHR$ 64+CHR$ (PROG-256
+INT (PROG/256))+CHR$ (INT (PROG
/256))+C$(CYL,18 TO 19)+CHR$ CL:
LET C$(DR,11 TO 20)=D$: LET NEX
T=CYL+CL: GO SUB 500: GO TO 200
410 IF K=2 OR K=3 OR K=4 OR K=6
THEN LET D$=D$+CHR$ (PROG-256+I
NT (PROG/256))+CHR$ (INT (PROG/2
56))+CHR$ 0+CHR$ 128+C$(CYL,16 T
O 19)+CHR$ CL: LET C$(DR,11 TO 2
0)=D$: LET NEXT=CYL+CL: GO SUB 5
00: GO TO 200
420 IF K=5 THEN LET D$=D$+CHR$
0+CHR$ 194+CHR$ 0+CHR$ 62+CHR$ 2
30+CHR$ 4+C$(CYL,18 TO 19)+CHR$
10: LET C$(DR,11 TO 20)=D$: LET
CL=10: LET NEXT=CYL+CL: GO SUB 5
00: GO TO 200
430 STOP
440 LET DR=DR+1: LET C$(DR,1)=C
HR$ 128
450 RANDOMIZE USR 26739: CAT
460 STOP
470 LET Z=PEEK 23627+256*PEEK 2
3628: RETURN
480 BEEP .08,35: RETURN
490 ON ERR RESET : STOP
500 GO SUB 480: PRINT #0;"PRESS
ANY KEY TO CONTINUE ": PAUSE 0:
RETURN

```

Enter the basic carefully, making sure that line 1 is typed in to the fourth line. This line will hold the machine code subroutines to speed up certain sections, and also the machine code necessary to manipulate the disk operating system.

It will help immensely to recover a disk, if a printout of the catalog for the damaged disk is available when a recover is necessary. Should such printout not be available, the process becomes a guessing game at times. The most difficulty will be to recognize the type of data on the disk. State of the machine is recognized most easily if a screen of some kind was saved along with the data. There are two ways to see what kind of data you have on a cylinder, the first being a screen load where the first part of a state of machine is where it suppose to be, even if the screen had no data on it, it would look black.

Pressing the "p" key will let you see other data, for instance basic or data is best recognized

that way. A machine code program has its own peculiar look, as you can see in the next column.

I strongly recomend to take a disk with known data on it, copy the catalog to a printer, then copy the disk to another using the MOVE/ command, and practice on this copied disk. This will give you the feel for the program, and the type data you may encounter. It would probably be best to copy a disk with different types of data on it, this would really give you an idea what each type looks like.

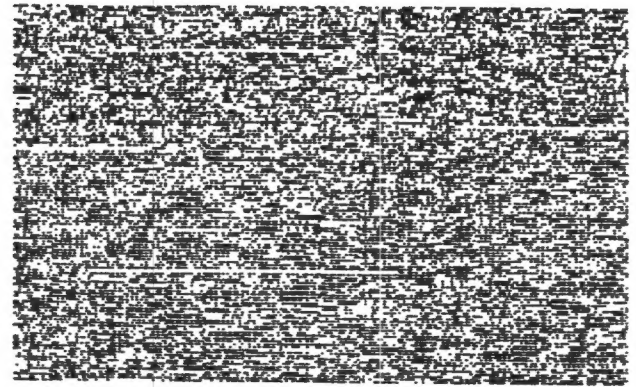
Lets look at the next column now, the top picture is code in the display file. In the next picture you have code again, but this time it does not fill the screen. The next picture is a basic program in data format, but unmistakable basic. This will give you a good idea of how much space numbers take up with number tokens and the five bytes following. Below you can see a typical data format of a screen display, hope this will help you with the program.

```

????????????????????????????????????
??@?? ???? ????@! ???? ????@?
?_???@! ?_???@? ?_???@? ?_???@?
?_???@? ?_???@! ?_???@? ?_???@?
????????????????????????????????
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????????????????????????????????

```

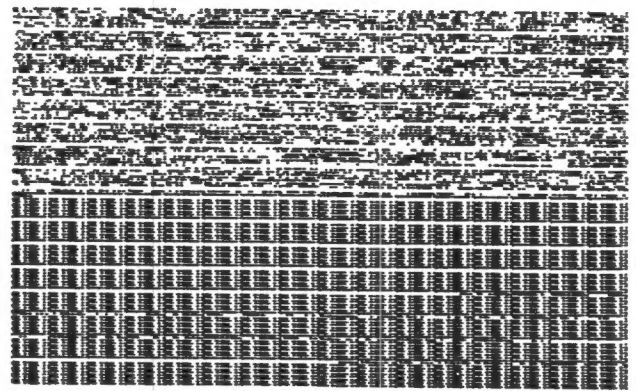
Last month I mentioned that one could only retrieve data and that this program would not restore a disk period. Not so, I managed to write this program, so that it will restore a disk, with the exception



```

PRESS UP TO USE IN DATA FORMAT
ONE (1) TO ESC NEXT OVERLIDER

```



```

PRESS UP TO USE IN DATA FORMAT
ONE (1) TO ESC NEXT OVERLIDER

```

```

??
? CLEAR 65367???W COPY ?
? (: ? RANDOMIZE USA 26688???@h?
RANDOMIZE USA 37536???QC?: REM i
nitiallize IM2,delete BASIC
?? REM BACKUP
?B?? BEEP 1???/200???>=??,20?
???
?ER? POKE 23658???J\?,8????: PRI
NT AT 19????,0?????: INPUT AT 0
??????,0?????,"Make backup (Y/N
)?" ;K$
?00? IF K$="Y" THEN BEEP 1?????
/200???>=??,20?????: GO TO 8070??
?_??
?T&? IF K$="N" THEN BEEP 1?????
/200???>=??,20?????: RUN
?1?? GO TO 8005???E??
?_C? PRINT AT 19????,0?????: SA
VE /"TSTIME" LINE 9997???
??: SAVE /"TSTML

```



of any corrupted data and the program names, the disk will be usable. Program names of course can be restored using the RESTORE/feature in OLIGERS SAFE DOS, as to the corrupted data, guess thats to much to ask.

John Oliqer has talked about adding a RENAME DISK feature to his DOS, but I feel this can easely be done with a program. Next month you will find such a program in this column. It is short and simple, only a few basic lines and some code, or you could use the new version of the DISK LIBRARY to do the same thing. I would rather see John Oliqer use any space left in the BK eprom for something else, that is of course, if there is any space left.

As to the DISK RECOVER PROGRAM, just follow the prompts, it is easy to use, and should not give you any problems. I give you a hint, I dont like programs where I have to read fifty pages of instructions, and I believe nobody else should have to either.

#### ADDENDUM'S \* FIXES (BLOOPERS)

The Library Program last month had a few bloopers in it alright. Thats why I sat down and redone some of the sections. So much for being in a hurry.

Line 1010 should have all statements which are duplicated on the next line removed.

Also drives dont have to be in logical order since data is moved to "S". I also added a feature to display remaining bytes left on destination disk. Fact is there are so many changes, that it pays to send for it.

Well that's it again. I will have to take a good look at the program for next month and give you all the corrections. Sorry, but writing the RECOVER program took a while. For next month I will have the RENAME DISK program and a few other things I hope.

Till next month # 3

SAVE OUR  
PUBLIK  
SKOOLS



"It's pretty depressing, Wilcox: 24,312 dead guinea pigs and still not a clue as to why we killed them."

(NOTE NEITHER ANY AUTHOR OR SMUG BYTES TAKES ANY RESPONSIBILITY  
FOR ANY HARDWARE MODIFICATIONS TO YOUR EQUIPMENT.)

## FROM THE PRES.

There are two computerfests coming up. Nearby the Cleveland group is sponsoring one August 26 & 27. For the West Coast and any others who wish to go is the 3rd Northwest Computerfest in Portland Oregon. If you've never attended one try it you'll like it. The bus trip from Milwaukee is 2 days 8 hrs and \$121 or flying from Milwaukee is \$318 if reservations made in advance.

Ham and Computer fests coming up Sat. JULY 9, the SMARC presents SWAPFEST88 Oak Creek. Amer. Legion Post

## Bill on QL

We have been attending QL classes given by Lloyd Dreger. Well they have pointed out many of the advantages of the QL but also some disadvantages, at least compared to the TS2068, in the handling of the

BASIC language. We did find a problem with the QL manual. In the Keyword section - KEYROW function, there is a table showing column and row. In column 128, row 5 it should read as an alpha O. Along with that I would advise redrawing some of the other characters.

The following is a boot program for all you with Trump Cards. If you have the slower disk drives the TRACK and START will change the defaults to double density instead of quad. Lines 210 thru 350 will set the matching keys to return the commands when the ALT key and that character is pressed. For example ALT and 2 will print the words delete flp2\_ add the name of the program on flp2 to delete and press enter. The file will be deleted. The ALTKEY func. does not require Toolkit II but CLOCK, TK2\_EXT, WMON TRACK & START do.

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```

100 CLS: TK2_EXT: WMON
110 FLP_TRACK 40
120 FLP_START 60
130 CLS: REM set clock
135 INK #2.0
140 AT #2,19,1:PRINT #2,'If set
clock "Y" else "N"'
150 IF yn$='Y' OR yn$='y' THEN GO
TO 200
152 ELSE
154 IF yn$='N' OR yn$='n' then
GO TO 200
156 ELSE
158 GO TO 150
159 END IF
160 INPUT #0,'YR <> MO <> DY <> HR
<> MN <> SC <> <>=ENTER KEY
';yr,mo,dy,hr,mn,sc
170 SDATE yr,mo,dy,hr,mn,sc
200 OPEN
#10>window_96x10a432x16:WMON

```

```

202 INK #10,6:PAPER #20,0
204 CLOCK #10,'%h:%m'
206 CLS
210 ALTKEY ' ','list'
220 ALTKEY '}','flp2_'
230 ALTKEY '[','flp1_'
240 ALTKEY '\','cls #0'
250 ALTKEY '=','dir flp1_'
260 ALTKEY '-','dir flp2_'
270 ALTKEY '0','format flp1_'
280 ALTKEY '9','format flp2_'
290 ALTKEY '8','flp_use mdv'
300 ALTKEY '7','mdv_use mdv'
310 ALTKEY '6','save flp1_'
320 ALTKEY '5','save flp2_'
330 ALTKEY '4','format ram1_1440'
340 ALTKEY '3','delete flp1_'
350 ALTKEY '2','delete flp2_'

```

Tune in next month.



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by Dick Cultice

When I was asked to do an article on networking the QL, little was known about the subject in our club. So one Sunday afternoon several members got together and tried it, but with little success. I should say none at all. Very many crashes and unfriendly diagnostics were seen that day. So that you do not have to go through the same thing, here are a few tips.

Getting started - Make up some net cables using speaker wire & mini. phone plugs. 3 would be enough. One 6 ft., one 10 ft. and one 20 ft. long. Toolkit II was used by us because it corrects errors in the QL ROM but you can try it without it. Only one of each type of device is needed (printer, disk drive, modem, etc), each should have their own monitor though, but if data is to be exchanged you may want disk drives on 2 separate QLs.

Set up your QL and make sure all units work. Using one of those new cables you have just completed, connect your machine to another one via the net jack located on the right rear. There are two jacks and either jack is alright to use. Here is where we made our mistake. We connected the second cable to complete the loop. This disconnected pull down resistors in the circuit. Use only one cable between each machine, with the end machines having one empathy jack. This gave a resistance of about 160 ohms across the cables.

Count Off - Each machine must be given a different number. Machines with a number less than 9, can be used as a FILE SERVER. (This is a Toolkit II function)

OK? Here is your first command: NET  
station number <ENTER> (note enter  
will be <> from now on). Station 1  
through 8 can use the next command:  
FSERVER <>.

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This command must come after the NET command. Any station may use any device connected with a file server. Stations that are servers may even access other servers in the net.

Here are a few commands that can be used to access a server. With NET 2 a server attached to a disk drive and NET 3 having a printer.

LOAD n2\_flp1\_filename - This loads a basic program from NET 2's disk drive to the station the command was entered on.

WCOPY n2\_mdvl\_ to flp2\_ - This copys all files from NET 2's micro to disk drive 2 on originator.

SAVE n2\_flp1\_program name - Save the basic program in originator to flp1 in net 2.

COPY program name TO n3\_prt - Will list the program named to printer.

You should be able to catch on using these commands. Specifying a double device such as n2\_ and prt or scr or flp1\_ will usually work. Try a few commands until you feel comfortable with the syntax used in each statement.

Most of the commands are given in Concepts, page 34, in the QL users manual. There are more commands that work with Toolkit. Commands that work in the background, such as print spoolers, can be used. When these commands are used, the server can use his or her station for other processing.

Net is easy to use and can be fun. Share with another station.